

**"APPROVED FOR RELEASE: 03/14/2001**

**CIA-RDP86-00513R001756820006-6**

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**CIA-RDP86-00513R001756820006-6"**

TRUKHNIY, A.D.

Experimental study of the destruction of model gas turbine discs  
under thermal fatigue. Trudy MEI no.47:235-242 '63.  
(MIRA 17:1)

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**CIA-RDP86-00513R001756820006-6"**

L 26670-65 EWP(1)/EWP(m) Pd-1  
ACCESSION NR: AP5003313

S/0166/64/000/006/0069/0073

AUTHORS: Umarov, G. Ya.; Trukhov, V. S.

23  
7

... of the dynamics of development ...

B

... by the authors elsewhere ...

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**CIA-RDP86-00513R001756820006-6**

**APPROVED FOR RELEASE: 03/14/2001**

**CIA-RDP86-00513R001756820006-6"**

UMAROV, G.Ya.; TRUKHOV, V.S.

Experimental study on the generation of shock waves in the  
pulse breakdown of liquids. Izv. AN Uz. SSR Ser. fiz.-mat.  
nauk 8 no.3:56-60 '64. (MIRA 17:10)

1. Fiziko-tekhnicheskii institut AN UzSSR.

BELOV, V.F.; VISHNYAKOVA, T.P.; GOL'DANSKIY, V.I.; MAKAROV, Ye.F.;  
PAUSHKIN, Ya.M.; SOKOLINSKAYA, T.A.; STUKAN, R.A.; TRUKHTANOV,  
V.A.

Study of ferrocene copolymers by means of the Mössbauer effect.  
Dokl. AN SSSR 159 no.4:831-834 D '64 (MIRA 18:1)

1. Institut khimicheskoy fiziki AN SSSR i Moskovskiy institut  
neftekhimicheskoy i gazovoy promyshlennosti i . I.M. Gubkina.
2. Chlen-korrespondent AN SSSR (for Gol'danskiy).



KORYTKO, I.A.; SUZDALEV, I.P.; TRUKHTANOV, V.A.

Electrodynamic unit for tests using the Mössbauer effect.  
Zav. lab. 21 no. 12:1519-1522 '65 (MIRA 17:1)

1. Institut khimicheskoy fiziki AN SSSR.

GOL'DANSKIY, V.I.; BELOV, V.F.; DEVISHEVA, M.N.; TRUKHTANOV, V.A.

Use of the nuclear gamma-resonance method in studying internal magnetic fields on  $\text{Fe}^{57}$  nuclei in Ni - Zn ferrites. Zhur.eksp. i teor.fiz. 49 no.6:1681-1688 D '65.

(MIRA 19:1)

1. Institut khimicheskoy fiziki AN SSSR. Submitted May 25, 1965.

ACCESSION NR: (P40)34

3 12-43 141 00270427-34

17

AUTHOR: Gol'danskiy, V. I. (Corr. member, AN SSSR); Makarov, Ye. F.; Stukan, R. A.; Trukhtanov, V. A.; Khrapov, V. V.

TITLE: Analysis of the structure of polymeric organo-tin oxides  $R_2 SnO$  by Mossbauer effect

SOURCE: AN SSSR. Doklady\*, v. 151, no. 2, 1963, 357-360

TOPIC TAGS: Sn, Mossbauer effect

ABSTRACT: New assumptions are proposed on the structure of  $R_2SnO$  organo-tin molecules, based on the presentation of the results of the Mossbauer effect, investigations in these oxides and related compounds. The Mossbauer spectra for all these compounds consist of two lines. Also the probability of the Mossbauer effect for some  $R_2SnO$  organo-tin oxides is investigated. "In conclusion, the authors express their sincere gratitude to Ye. M. Panov, O. A. Ptitsyna, and N. I. Sheverdina for submitting preparations of tin-organic compounds." Orig. art. has: 2 figures, 5 formulas, and 1 table.

Card 1/21

*Institute of Chemical Physics, Academy of Sci.*

ABLOV, A.V., akademik; BELOZERSKIY, G.N.; GOL'DANSKIY, V.I.; MAKAROV, Ye.F.;  
TRUKHTANOV, V.A.; KHRAPOV, V.V.

Mössbauer's spectra of complex compounds of iron with  
diacetylthiosemicarbazone oxime. Dokl. AN SSSR 151 no.6:1352-1355  
Ag '63. (MIRA 16:10)

1. Institut khimicheskoy fiziki AN SSSR i Institut khimii AN  
Moldavskoy SSR. 2. AN Moldavskoy SSR (for Ablov). 3. Chlen-  
korrespondent AN SSSR (for Gol'danskiy).

TRUKHTANOV, V. A

L 11:851-65 EWT(1)/EWT(m)/EEG(t)/ENP(t)/ENP(b) Feb IJP(c)/AFDC(a)/SSD/  
APWL/AS(mp)-2/ESD(gs)/ESD(t) JD  
ACCESSION NR: AP4048424 S/0181/64/006/011/3435/3437

AUTHORS: Belov, V. F.; Devisheva, M. N.; Zheludev, I. S.; Makarov, Ye. F.; Stukan, R. A.; Trukhtanov, V. A.

TITLE: Mossbauer effect<sup>1</sup> in manganese and manganese-magnesium fer-<sup>B</sup>rites

SOURCE: Fizika tverdogo tela, v. 6, no. 11, 1964, 3435-3437

TOPIC TAGS: manganese<sup>27</sup> alloy, magnesium ferrite, Mossbauer effect, saturation magnetization, internal magnetic field

ABSTRACT: The purpose of this study was to obtain information on the properties of the internal magnetic fields at the Fe<sup>57</sup> in the ferrites and to obtain other data on the Mossbauer effect in solid solutions of ferrites with spinel structure and with different Mn atom contents. The absorbers used were ferrites in powdered form, mixed with paraffin and pressed into tablets of 10 cm<sup>2</sup> area (surface

Card 1/2

L 14851-65

ACCESSION NR: AP4048424

density of iron 10 mg/cm<sup>2</sup>). The source was a stainless steel plate <sup>2</sup> impregnated with Co<sup>57</sup> radioactive nuclei. The internal magnetic field was determined by measuring the distance between the components of the Zeeman splitting. The results showed that the density of the s electrons (determined from the chemical shift) in the nucleus and in the investigated compounds is practically the same. The local magnetic field on the Fe nuclei decreased with increasing saturation magnetization in some ferrites and increased in others, and an explanation is offered for this difference. Orig. art. has 3 tables.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics AN SSSR); Institut kristallografi AN SSSR, Moscow (Institute of Crystallography AN SSSR)

SUBMITTED: 09Jun64

SUB CODE: SS, MM

NR REF SOV: 003

ENCL: 00

OTHER: 005

Card 2/2

GOL'DANSKIY, V.I.; MAKAROV, Ye.F.; STUKAN, R.A.; TRUKHTANOV, V.A.; KHRAPOV, V.V.

Structure of organotin oxides  $R_2SnO$  studies with the aid of Mössbauer effect. Dokl. AN SSSR 151 no.2:357-360 J1 '63. (MIRA 16:7)

1. Institut khimicheskoy fiziki AN SSSR. 2. Chlen-korrespondent AN SSSR (for Gol'danskiy).  
(Tin organic compounds) IMössbauer effect)

BELOV, V.F.; DEVISHEVA, M.N.; ZHELUDEV, I.S.; MAKAROV, Ye.F.; STUKAN, R.A.;  
TRUKHTANOV, V.A.

Mössbauer effect in Mn- and Mg--Mn-ferrites. Fiz. tver. tela 6  
no.11:3435-3437 N '64. (MIRA 18:1)

1. Institut khimicheskoy fiziki AN SSSR, i Institut kristallografii  
AN SSSR, Moskva.



L 25697-66

EWT(1)/EWT(m)/EWA(d)/EWP(t)

DIAAP/IJP(c)

JP/44

ACC NR: AP6002704

SOURCE CODE: UR/0058/65/049/006/1681/1688

AUTHOR: Gol'danskiy, V. I.; Belov, V. F.; Devisheva, M. N.; Trukhtanov, V. A.

ORG: Institute of Chemical Physics, Academy of Sciences SSSR (Institut khimicheskoy fiziki Akademii nauk SSSR) 69

TITLE: Investigation of internal magnetic fields on  $Fe^{57}$  nuclei in Ni-Zn ferrites by the nuclear gamma resonance method 19 27 27 27 18

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 6, 1965, 1681-1688

TOPIC TAGS: electron density, zinc compound, ferromagnetic material, Mossbauer effect, ferrite, iron, line splitting, magnetic field, paramagnetic material

ABSTRACT: The authors obtained the Mossbauer spectra of the Ni-Zn series of ferrites and determined the values of the internal magnetic field on the  $Fe^{57}$  nuclei with the zinc concentration varied from 0 to 1 (at 300 and 78K). The apparatus used was of the electrodynamic type, described in detail elsewhere (Zavodskaya laboratoriya No. 12, 1965). The ferrites were prepared by a standard ceramic technique. From the spectra obtained it is deduced that with increasing zinc content, up to total substitution of zinc for the iron ions, the ferrite goes over from the ferrimagnetic ordered state to a paramagnetic state. The line splitting in the pure nickel ferrite can be attributed to the existence of two fields with different ion positions. Smaller values of the field correspond to tetrahedral positions of the iron ions. Both the positive components of the field and the electron density in the region increase simultaneously.

Card 1/2

L 25697-66

ACC NR: AP6002704

At 78K the character of the Mossbauer spectra is similar to that at room temperature, except that the lines converge at larger zinc contents, the internal magnetic field on the nuclei are larger, and the difference in the values of the internal field due to the different positions of the iron ions is also larger. With increasing zinc content, the field on the iron nuclei in both the tetrahedral and in the octahedral sublattice decreases, in contradiction to the data obtained by Abe, Matsuura, et al. (J. Phys. Soc. Japan v. 18, 1400, 1963). Orig. art. has: 5 figures and 2 formulas.

SUB CODE: 20/ SUBM DATE: 25May65/ ORIG REF: 002/ OTH REF: 015

Card 2/2

ACC NR: AP6024517

SOURCE CODE: UR/0386/66/004/002/0063/0064

AUTHOR: Gol'danskiy, V. I.; Devisheva, H. N.; Makarov, Ye. F.; Novikov, G. V.; Trukhtanov, V. A. 52  
50  
6

ORG: Institute of Chemical Physics, Academy of Sciences SSSR (Institut Khimicheskoy fiziki Akademii nauk SSSR)

TITLE: Sign of the magnetic field at tin nuclei in a ferroelectric matrix <sup>19</sup>

SOURCE: Zh eksper i teor fiz. Pis'ma v redaktsiyu. Prilozheniye, v. 4, no. 2, 1966, 63-64

TOPIC TAGS: tin, ferrite, Mossbauer spectrum, spectral distribution, magnetic moment, line splitting

ABSTRACT: The purpose of the investigation was to determine the sign of the indirectly induced (super-exchange) field at the nuclei of nonmagnetic tin atoms introduced into an yttrium-iron-garnet matrix, previously observed by the authors (Pis'ma ZhETF v. 1, no. 1, 1965; Phys. Lett. v. 15, no. 4, 1965). To this end the authors investigated the Mossbauer spectra of the same garnet sample placed in an external magnetic field. The change in the intensity ratios of the various spectral components, due to application of the magnetic field, is attributed to the change in the character of the angular distribution of the components of the transitions  $\pm 1/2$  ( $4/2$ )  $\rightarrow \pm 1/2$  ( $1/2$ ). The distinctly observed increase in the splitting of the Mossbauer spectrum components indicates that the internal magnetic field at the tin nuclei co-

Card 1/2

L 30229-66

ACC NR: AP6024517

2

incides in direction with the applied electric field, with the magnetic moment of the tetrahedral sublattice parallel and that of the octahedral sublattice antiparallel to the applied field. Since the internal magnetic field at the iron nucleus is always negative relative to the magnetic moment of its ion, it is concluded that the fields of the nuclei, both tin and iron, situated in the same (octahedral) sublattice of the yttrium iron garnet have the same sign. Several explanations of this fact will be discussed in a future article. The authors thank Yu. S. Sherbinin for making possible the operation of the apparatus and Yu. P. Baydorovtsev for supplying the magnet. Orig. art. has: 1 figure.

SUB CODE: 20/ SUBM DATE: 20May66/ ORIG REF: 002/ OTH REF: 002

Card 2/2 116-

RIEDL, O.; HRUSKOVA, J.; STUCHLIKOVA, E.; KOMARKOVA, A.; NOVOTNA, ~~...~~  
BLAZKOVA, B.; TENOROVA, M.; RENNER, J.; SPALA, M.; TVAROH, F.;  
Technical Assistance: ATANASOVOVA, J.; TRUKOVA, R.

Treatment of obesity with caprolactam. Rev. Czech. med. 9  
no.3:167-182 '63.

1. Fourth Medical Clinic, Faculty of General Medicine, Charles  
University, Prague. Director: Prof. M. Fucik, M.D. Central  
Laboratory, Faculty Hospital, Prague. Director: Dr. J. Hrabane  
Institute for General and Experimental Pathology, Faculty of  
General Medicine. Director: Prof. J. Hepner, M.D. Endocrino-  
logical Department, University Health Centre, Regional Institute  
of National Health, Central Bohemian Region. Director: Doc.  
F. Tvaroh, M.D.

(OBESITY) (AMINOCAPROIC ACID)  
(PYRUVATES) (CITRATES) (LACTATES)

BANACH, J., inz.; LUPINEK, M., inz. dr.; PETRAS, I., inz.; TRUKSA, V.

A magnetron amplifier for the 3 cm band (A 48). Sbor vak  
elektrotech 4:5-15 '64.

1. Tesla, Pardubice (for Banach). 2. Research Institute of  
Vacuum Electrical Engineering, Prague (for all except Banach).

AUTHOR: Truksa Vaclav

3/275/63/000/003/003/021  
A052/A126

TITLE: A method of cathode assembly

PERIODICAL: Referativnyy zhurnal, Elektronika i yeye primeneniye, no. 3, 1963, 16, abstract 3A81P. (Czech. pat., cl. 21g, 13/16, no. 102159, December 15, 1961)

TEXT: A new method of assembly is proposed for 2-electrode oscillator electron tubes with crossed electric and permanent magnetic fields, in particular for magnetrons. Essentially the method consists of the following: The heater filaments are placed in a small-diameter molybdenum tube which is inserted into a hole reserved for it in one of the pole shoes of a permanent magnet. The cathode proper (i.e. the cathode body with the oxide layer as well as the disks fixed on the cathode ends and covering the interaction space from above and below) is put on the free end of the tube protruding from the pole shoe. The second end of the tube is welded to the cathode holder protruding over the external surface of the pole shoe. On the cathode thus assembled the anode unit and then the second pole shoe are

Card 1/2

A method of cathode assembly

S/275/63/000/003/003/021  
A052/A126

put. The proposed method of assembly provides for the use of a built-up permanent magnet. Owing to the fact that the diameter of the hole in the pole shoes is small (must let pass only a thin molybdenum tube with a heater) a high stability of the magnetic field over the whole cathode length and over the whole section of the interaction space (the magnitude of distortions  $\leq 1\%$ ) is secured, which in turn eliminates tube-power fluctuations, reduces anode current, voltage, sparkings and overload of the cathode, and leads to a considerable prolongation of the service life of the tube.

B.Ya.

[ Abstracter's note: Complete translation. ]

Card 2/2



MEZRICKY, V., MVDr., KACIN, J., MVDr.; TRUBŠOVA, B., prom. lekarka; KAMINEK, J.,  
MUDr.

Experiences with cooperation of the physician with the veterinarian  
in the Kolin district. Cesk. zdrav. 13 no.1:31-34 Ja '65

1. Okresni veterinarni zarizeni, Kolin (vedouci V. Palounek,  
prom. vet. lekar); Okresni hygiencko-epidemiologicke stanice  
Obvodniho ustavu narodniho zdravi, Kolin (vedouci J. Lach, prom.  
lekar) a Okresni ustredi zdravotnicke osvety Obvodniho ustavu  
narodniho zdravi, Kolin (vedouci MUDr. J. Kaminek).

TRULEV, Yu.I.

Recording of an achromatic band of an interference image in  
white light. Trudy Inst.Kom.stand., ser' fizm.prib. no.56:11-14  
'61. (MIRA 15:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii  
im. D.I.Mendeleyeva.

(Interference (Light))

TRULEVICH, N.V.

Comparative characteristics of changes in the vegetative cover  
and population dynamics of the basic species of dry steppe  
pastures in the Issyk-Kul' and Naryn Troughs. Biol.MOIP.Otd.  
biol. 67 no.4:48-61 J1-Ag '62. (MIRA 15:10)

(TIEN SHAN--PASTURES AND MEADOWS)

TRULEVICH, N.V.

Morphologic characteristics of undershrubs with regard to their introduction. Biul. Glav. bot. sada no.46:23-30 '62. (MIRA 16:5)

1. Glavnyy botanicheskiy sad AN SSSR.  
(Soviet Central ~~Asia~~ Wormwood) (Plant introduction)

TRUMBACHEV, V.F., kand.tekhn.nauk; MEL'NIKOV, Ye.M., inzh.

Research with models on the distribution of stresses in a block of untouched ore containing weak interbeds under approximately the same conditions as at the Yakovlevo deposit (Kursk Magnetic Anomaly). Trudy Inst. gor. dela 5:50-56 '60. ; (MIRA 14:5)  
(Kursk magnetic anomaly—Rock pressure)  
(Geological models)

MUKHINA, K.M.; TRUKHTANOVA, V.I.; ZAKHAROV, V.I., red.; BAULIN, V.A.,  
red.; SUDAK, D.M., tekhn.red.; BABICHEVA, V.V., tekhn.red.

[Manual for supervisors of public food service establishments]  
Spravochnik rukovoditelia predpriatiia obshchestvennogo pita-  
niia. Sostaviteli: K.M.Mukhina, V.I.Trukhtanova. Pod red. V.I.  
Zakharova. Moskva, Gos.izd-vo torg.lit-ry, 1960. 647 p. (MIRA 13:5)

1. Russia (1917- R.S.F.S.R.) Ministerstvo torgovli.  
(Restaurants, lunchrooms, etc.)

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**CIA-RDP86-00513R001756820006-6"**

SOV/137-57-1-1010

Translation from: Referativnyy zhurnal. Metallurgiya, 1957, Nr 1, p 130 (USSR)

AUTHORS: Katok, I. V., Trukhmanova, V. M.

TITLE: Bright Hardening of Components of the S-80 Tractor in Alkalies  
(Svetlaya zakalka detaley traktora S-80 v shchelochakh)

PERIODICAL: Tekhnol. transp. mashinostroyeniya, 1956, Nr 5, pp 15-22

ABSTRACT: The design of furnaces and accessories and the arrangement of equipment for the bright hardening and bright nitriding sections of an automated production line are presented. The technological process of bright isothermal and bright hot hardening in alkalies followed by tempering in the same medium is examined in detail for various components, and values of hardness achieved by the heat-treatment procedures described are given. See also RZhMet, 1956, Nr 10, abstract 10772.

A. B.

Card 1/1



TRUKHMANOVA, YE.S.

PLATE I BOOK EXPIRATION SOV/1963

Method polucheniya i izmereniya radioaktivnykh preparatsiy, Atomik  
Metry Methods for the Production and Measurement of Radio-  
Active Preparations, Collection of Articles, Moscow, Izdatel'stvo  
1960. 307 p. Krana slip inserted. 6,000 copies printed.

General Ed.: Valeriy Vlasov, V. P. Shishov, Candidate of Sci-  
ences, Ed.: M. A. Vlasov.

Purpose: This collection of articles is intended for scientific and  
technical personnel working in the production of radioactive iso-  
topes.

Contents: The collection contains original studies on methods of  
obtaining and measuring radioactive preparations. According to  
the articles, the articles contain new data, and are of scientific  
or practical interest to the extent that they discuss new articles  
of scientific information. In addition to the production of radio-  
active isotopes and isotopes, the collection contains discussions on the  
active isotopes and isotopes, the collection contains discussions on the  
active isotopes and isotopes, the collection contains discussions on the  
active isotopes and isotopes. Also discussed are methods for prepar-  
ing a number of tagged organic compounds, problems in the analy-  
sis of tagged organic compounds, the absolute and relative measure-  
ment of activity, and the radiometric analysis of preparations.  
New instruments and equipment are described and instructions con-  
cerning measurement methods and techniques are included. V. I. Levin,  
Candidate of Chemical Sciences, V. P. Shishov, Candidate of Sci-  
ences, Ed.: M. A. Vlasov, Candidate of Biological Sciences,  
and V. I. Shishov, Candidate of Chemical Sciences. The collection  
as having helped directly in the analysis and preparation of the  
material for publication. References accompany each article.

TABLE OF CONTENTS

* Dubrov, I. N., and V. V. Aspyov. Qualitative Determination of Tyrosine Tagged with C14	217
* Dubrov, I. N. Testing for Amino Impurities in Radioactive Medicinal Preparations	221
PART III. MEASUREMENT OF RADIOACTIVE PREPARATIONS	
Dobrov, V. V. Radiometric Characteristics of Preparations	227
Altschul, K. K. System of Measuring Dosimetric Characteristics of $\beta$ - and $\gamma$ -Emitters	234
Livova, M. A., and V. V. Dobrov. Measurement of the Activity of Isotopes from Their $\beta$ -Radiation with the Aid of an End- Window Counter	239
* Balashov, V. A., and V. V. Dobrov. Absolute Measurement of the Activity of Certain $\beta$ -Active Gases and Liquids	261
* Vlasov, M. A., Ye. S. Trukhmanova, and K. M. Shlyagin. Method of Determining the Activity of Volatile Liquids Tagged with C14 with an End-Window Counter	268
Trukhmanova, Ye. S., and K. M. Shlyagin. Radiometric Analysis of Certain Radioisotopic Preparations	278
Sokolov, V. A. Preparation of Samples of Elementary Sulfur, Bar- ium Sulfide, and Barium Sulfate Containing S35 for Radiometric Measurements	290
Dubrov, I. N., M. A. Livova, and N. N. Dzerzh. Methods of Pre- paring Standard $\beta$ -Emitters	293

GOL'DANSKIY, V.I.; TRUKHTANOV, V.A.; DEVISHEVA, M.N.; BELOV, V.F.

Superexchange induction of magnetic fields on nonmagnetic atomic nuclei. Pis'. v red. Zhur. eksper. i teor. fiz. 1 no.1:31-36 Ap '65. (MIRA 18:9)

1. Institut khimicheskoy fiziki AN SSSR.

5(3)

SOV/62-59-5-38/40

AUTHORS: Ivanov, V. I., Zakharov, B. A., Trukhtenkova, N. Ye.,  
Krylova, G. A.

TITLE: Letters to the Editor (Pis'ma redaktoru)

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,  
1959, Nr 5, p 949 (USSR)

ABSTRACT: In earlier papers (Refs 1-3) the authors had shown that the strength of a hydrated cellulose fiber may be determined mainly from the homogeneity of the molecular weight of the cellulose. Accordingly, the molecular homogeneity of bleached sulfite paper with known strength characteristics was investigated after a single deformation (double folding). Papers of the type A, and papers made by the firms Aane and Serlakius were investigated. The mass distribution function in dependence on the degree of polymerization is represented by a figure for the various types of paper. Investigations showed that, in order to attain a high degree of strength, a very homogeneous cellulose in the range of polymerization above 2000 is necessary.

Card 1/2 This may be attained by using a cellulose for paper production,

Letters to the Editor

SOV/62-59-5-38/40

which was obtained by means of the chloride of potash method, or by homogenizing the cellulose by means of nitrohydrochloric acid. There are 1 figure and 3 Soviet references.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences, USSR)

SUBMITTED: February 2, 1959

Card 2/2

23

CA  
TRUKHOV, N. I.

Production of halfstuff from wood by the Sudakov method. N. I. Trukhov. *Tsentr. Nauch.-Issledovatel. Inst. Khimichesk. Prom. Materialov* (Trans. Central Sci. Research Inst. Paper Ind.) 1933, No. 1, 142-73.—The Sudakov process was applied to the production of halfstuff from aspen chips and birch shavings by macerating stuff from aspen chips and birch shavings with 3-12 parts of NaOH or 30% Ca(OH)<sub>2</sub>, either before or during the process of grinding in a rod mill or edge-runner. Optimum conditions of maceration with 30% yield were for birch 8-9 hrs. at 18-20° with 1.5-2% NaOH and for aspen 12-15 hrs. at 15-20° with 1-2.5% NaOH. With decreasing thickness of chips the standard time was reduced, and this necessitated a careful removal of large pieces and sawdust. The sate. was greatly accelerated by pressure, but the process seemed too complicated, requiring further experimentation. Maceration with mech. stirring produced the best results, while circulation of liquor had no effect on aspen chips but accelerated the sate. of shavings. The method of simultaneous sate. with NaOH and grinding produced better results with a rod mill than with edge-runners. The substitution of Ca(OH)<sub>2</sub> for NaOH was practicable with preliminary maceration and subsequent grinding or with direct soln. of Ca(OH)<sub>2</sub> to the wood in the runners. Bleaching of Sudakov halfstuff with Ca(HSO<sub>3</sub>)<sub>2</sub> produced unsatisfactory results. The product resembled mech. pulp, and could be used in mists. only for production of yellowish paper. Chas. Blanc

338-114 METALLURGICAL LITERATURE CLASSIFICATION

TRUKHOV, N. I.

u

73

Sulfite halfstuff. N. I. TRUKHOV. *Bumashnaya Prom.* 11, No. 9, 60-5(1932).—  
Preliminary discussion. CHAS. BLANC

ASS. S. L. A. METALLURGICAL LITERATURE CLASSIFICATION

1932

1933

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PROCESSING AND PROPERTY INDEX																									
1ST AND 2ND COLUMNS													3RD AND 4TH COLUMNS												
1ST AND 2ND COLUMNS													3RD AND 4TH COLUMNS												
<p>TRUKHOV, N. I.</p> <p>CA</p> <p>Digestion and recovery in the Sakhalin sulfate pulp mills. N. I. Trukhov. <i>Dokl. Akad. Nauk SSSR</i>, No. 6, 219 (1948).--A general description of app. and methods in Sakhalin mills together with a review of Soviet developments in sulfate cooking. Marshall Sittig.</p>																									
<p>ASR-SLA METALLURGICAL LITERATURE CLASSIFICATION</p> <p>FROM STEELMAKING</p> <p>FROM STEELMAKING</p> <p>FROM STEELMAKING</p>																									

TRUKHOV, V. P.

"The Problem of the Effect of the Nervous System on the Healing of Fractured Bones." Cand Med Sci, Rostov-on-Don State Medical Inst, Rostov-on-Don, 1955.  
(KI, No 15, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations  
Defended at USSR Higher Educational Institutions (16).



CHIRVINA, Ye.D., kand.med.nauk (Rostov-na-Donu, Bratskiy per., d.47, kv.2)  
TRUKHOV, V.P., kand.med.nauk.

Changes in the circulating blood level and its fractions in burn  
disease [with summary in English]. Vest.khir. 80 no.6:69-73 Ja '58  
(MIRA 11:7)

1. Iz propedevticheskoy khirurgicheskoy kliniki (zav. prof. G.S.  
Ivakhnenko [deceased]) Rostovskogo-na-Donu meditsinskogo instituta.

(BLOOD VOLUME, determ.

in exper. burns in animals with radiophosphorus (Rus))

(BURNS, exper.

eff. on circulating blood volume in animals, radiophosphorus  
(Rus))

(PHOSPHORUS, radioactive

determ. of circulating blood volume in exper. burns  
in animals (Rus))

L 23290-65 EWT(1)/EWT(m)/EPT(a)/EPR/EWP(j)/EEC(t)/T Po -L/Pr-L/Ps-L/Peb IJP(a)/  
 ACCESSION NR: AP5000915RPL WW/RM 8/0020/84/159/004/0831/0834 49  
 41

AUTHOR: Belov, V. F.; Vishnyakova, T. P.; Makarov, Ye. F.; Pauskin, Ya. I. M.,  
 Sokol'skaya, T. A.; Stukan, R. A.; Trukhtanov, V. A.; Gol'danskiy, V. I. (Corresponding  
 member AN SSSR)

TITLE: The study of ferrocene copolymers by means of the Moessbauer effect

SOURCE: AN SSSR. Doklady, v. 159, no. 4, 1984, 831-834

TOPIC TAGS: ferrocene copolymers, ferroorganic polymer, Moessbauer effect, polymer crosslinking, gamma absorption spectrum

ABSTRACT: The electronic structure of iron in ferrocene polymers and the crosslinking of such polymers was studied from Moessbauer spectra, measuring the dependence of the resonant absorption of  $\gamma$ -ray quanta on the relative velocities of source and absorber. Cobalt-57 served as the source, and the polymers used as absorbers included soluble and insoluble polyferrocenes, polyvinylferrocenes, and copolymers of ferrocene with acetone, naphthalene, alpha-bromonaphthalene, p-dichlorobenzene, salicylaldehyde, benzaldehyde, and phthalaldehyde. All soluble polymers gave spectra at 80K similar to those of ferrocene and its derivatives, with doublets and approximately 10% Moessbauer effects. At room temperature, the Moessbauer effect of such polymers was smaller than for ferrocene.

Card 1/3

L 23290-65  
ACCESSION NR: AP5000915

indicating the high movability of ferrocenyl radicals in the polymeric structure. Insoluble polymers showed a marked decrease in quadrupole scattering as compared with ferrocene derivatives or soluble polymers. The spectra showed characteristics observed for ferricene salts and the formation of ferricene cations by electron detachment from iron. Moessbauer effects at room temperature were significantly higher than the effects measured for the soluble polymers. The difference is ascribed to the crosslinked structure and rigidity of molecules in the insoluble polymers. The presence of two doublets in the 80K spectra of insoluble polymers corresponds to the electronic structures of iron in conjugated three-dimensional links and in ordinary ferrocenyl links of the linear polymer fraction. Thus, the Moessbauer spectra can be evaluated to estimate the degree of crosslinking in polymers of ferrocene. By accounting for the concentration of iron in the polymers and for the dimensions of absorbers, the measured values can be reduced to the absolute probability of Moessbauer effects in ferrocene polymers,  $T_h$ . The degree of crosslinking is defined by the relation

$$i = \frac{T_h}{T_h + T_a} \cdot 100\%$$

Card 2/3

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L 23290-65  
ACCESSION NR: AP5000915

where  $a_1$  refers to linear and  $a_2$  to crosslinked fractions of the polymer. Orig. art. has:  
1 table, 1 figure and 2 formulas.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Chemical physics Institute, Academy of Sciences, SSSR); Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni I. M. Gubkina (Moscow Institute of the Petrochemical and gas Industry)

SUBMITTED: 22Jul64

ENCL: 00

SUB CODE: 00

NO REF SOV: 006

OTHER: 001

Cord 3/3

TRUKHTANOVA, V.

Assistance through advice and deed. Obshchestv. pit. no.5:19 '58.  
(Restaurants, lunchrooms, etc.) (MIRA 11:4)

TROFIMOVA, V.I.; SHAPIRO, M.S.; NARKEVICH, O.Ye.; TRUKHTANOVA, V.I.;  
VAGANOVA, N.A., red.; EL'KINA, E.M., tekhn. red.

[Organizing an unexpensive and fully adequate diet in  
restaurants]Kak organizovat' nedorogoe i polnotsennoe pitanie  
v stolovykh. Moskva, Gostorgizdat, 1961. 65 p. (MIRA 15:9)  
(Menus)

**"APPROVED FOR RELEASE: 03/14/2001**

**CIA-RDP86-00513R001756820006-6**

**APPROVED FOR RELEASE: 03/14/2001**

**CIA-RDP86-00513R001756820006-6"**

**"APPROVED FOR RELEASE: 03/14/2001**

**CIA-RDP86-00513R001756820006-6**

**APPROVED FOR RELEASE: 03/14/2001**

**CIA-RDP86-00513R001756820006-6"**



Trukhtenkova, N. E.

Thermal stability of cellulose and paper. N. Ye. Sotchnik and N. E. Trukhtenkova. *Zhur. Priklad. Khim.* 29, 416-24 (1956). The most stable forms of cotton cellulose contain the greatest amts. of cellulose with a degree of polymerization (D.P.) of 1200 or higher and lack fractions of a D.P. of under 10. The least thermostable forms are those which lack fractions above 1200 and contain appreciable amts. of less than decameric units (sulfite pulp and related forms). Other varieties of cellulose have intermediate stability to heat. The most thermostable papers are those which yield aq. exts. with pH 6.5-7.5; pH under 6.5 are progressively less thermostable, the lower the pH of their exts., while those yielding exts. with pH above 7.5 are thermostable but show increasing yellowing on heating. Only the free H ions are important in this case, since the ions which are in an absorbed state do not affect thermostability as neither do Ca or Al ions. A simple characterization of thermal stability in paper is the ease of fracture on folding: the thermostable varieties are much more resistant to crease cleavage.  
G. M. Kosolapoff

TRUKHTENKOVA, N.Ye.; KOPETSKAYA, D.L.; FIRSANOVA, N.Ye.

Bleached aspen sulfite woodpulp in papermaking. Bum.prom. 37  
no.12:11-16 D '62. (MIRA 16:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tsellyulozno-  
bumazhnoy promyshlennosti.  
(Woodpulp industry--Research)

SOLECHNIK, N.Ya.; ~~TRUKHUTENKOVA, N.Ye.~~

Heat resistance of cellulose and paper. Zhur.prikl.khim. 29 no.3:  
416-424 Mr '56. (MLRA 9:8)  
(Cellulose) (Paper--Testing)

KHVOSTOVA, V.V., DELONE, N.L., SOROKINA, O.N., TRUKOV, V.L., TSELISHCHEV, S.P.  
CHAYKINA, K.V.

Development of soft wheat seedlings obtained from seeds irradiated  
with thermal neutrons [with summary in English]. Biofizika 3  
no.4:459-465 '56 (MIRA 11:8)

1. Institut biologicheskoy fiziki AN SSSR, Moskva i Laboratoriya  
biofiziki Moskovskogo ordena Lenina sel'skokhozyaystvennoy akademii  
im. K.A. Timiryazeva, Moskva.

(PLANTS, EFFECT OF RADIATION ON)  
(WHEAT)

Penetration of spray solution into leaves of higher plants. I.  
Shetlik and A. Trukova (*Czechoslov. Biol.*, 1954, 2, 217-239) — MD  
A few leaves were sprayed with aq.  $\text{NaH}_2\text{PO}_4$  labelled with  $^{32}\text{P}$  or  
with aq.  $\text{Na}_2\text{SO}_4$  containing  $^{35}\text{S}$ . After three days all unsprayed  
parts of the plants showed radioactivity. The salts penetrated  
through stomata and also by other routes.  
SOILS & FERT. A 5411

(1)

RIEDL, O.; HRUSKOVA, J.; STUCHLIKOVA, E.; SPALA, M.; TVAROH, F.;  
ATANASOVOVA, J.; TRUKOVA, R.

Clinical experiences in the treatment of obesity with  
caprolactam. Sborn. lek. 65 no.5:133-141 My '63.

1. IV interni klinika fakulty vseobecneho lekarstvi University  
Karlovy v Praze, prednosta prof. dr. M. Fucik Ustav pro  
vseobecnou a pokusnou patologii fakulty vseobecneho lekarstvi  
University Karlovy v Praze, prednosta prof. dr. J. Hepner  
Endokrinologicke oddeleni fakultni polikliniky KUNZ Stredo-  
ceskeho kraje, vedouci doc. dr. F. Tvaroh.  
(OBESITY) (APPETITE DEPRESSANTS)

1950, 1951.

Atkinson, J. of Czechoslovakia. 1950.

Chadwick, J. of Czechoslovakia. vol. 60, no. 2, May 1950

See also Slovakia

sc. 1950. 1951. 1952. 1953. vol. 6, no. 7 Jul. 1950

C Z E C H

1 - P/W

Truksa, Ladislav. On the sixtieth anniversary of Professor  
Jaroslav Janko. Časopis Pěst. Mat. 79, 181-185 (1954).  
(Czech)

*J21*



KORONKEVICH, V.P.; TRULEV, Yu.I.

Photoelectric device for length measurements by counting interference bands. Trudy inst.Kom.stand., ser 1 izm.prib no.47:155-158 '61.  
(MIRA 15:12)

1. Novosibirskiy gosudarstvennyy institut mer i izmeritel'nykh priborov i Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D.I.Mendeleyeva.  
(Photoelectric measurements) (Interferometry)

BRODSKIY, A. D.; TRULEVA, I. B. .

Reproducing the boiling point of oxygen. Trudy inst. Kom.  
stand., mer i izm. prib. no.51:41-43 '61. (MIRA 16:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii  
im. D. I. Mendeleyeva.

(Oxygen) (Boiling points)

40093

S/081/62/000/013/018/054  
B158/B144

245560

AUTHORS: Brodskiy, A. D., Truleva, I. B.

TITLE: The reproducibility of the boiling point of oxygen

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 13, 1962, 357, abstract.  
13I141 (Tr. in-tov Kom-ta standartov, mer i izmerit.  
priborov pri Sov. Min. SSSR, no. 51 (III), 1961, 41-43)

TEXT: It has been established at VNIIM, after working on data on the reproduction of an international temperature scale at the boiling point of  $O_2$  using standard platinum resistance thermometers (TS), that the mean quadratic error of the latter is  $4 \cdot 10^{-3} ^\circ C$ . These results are obtained by stabilizing the temperature field in an  $O_2$  bath and using a special apparatus to obtain chemically pure  $O_2$ . It is established that platinum TS are stable within the limits of reproducibility of the boiling point of  $O_2$ , for which reason it is necessary to graduate the sample TS carefully by comparing with one of the standard TS graduated  
Card 1/2

The reproducibility of the boiling ... S/081/62/000/013/018/054  
B158/B144  
previously at the boiling point of  $O_2$  with the aid of a condensation  
thermometer. [Abstracter's note: Complete translation.]

Card 2/2

TRULEVICH, N.L.

Cultivating Ukrainian Steppe soil for winter wheat following a  
row crop. Zemledelie 7 no.7:27-30 J1 '59. (MIRA 12:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kukuruzy.  
(Ukraine--Wheat)

GODULYAN, I.S., kand. sel'skokhozyaystvennykh nauk; TRULEVICH, N.I.

Seedbed preparation for winter wheat after preceding stubble crops.  
(MIRA 11:6)  
Zemelodelie 6 no.6:37-40 Jo '58.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kukuruzy.  
(Tillage) (Wheat)

TRULEVICH, N. V.

Restoration processes following changes brought by grazing in  
Caragana grass-wormwood steppe of the Issyk-Kul' depression.  
Izv. AN Kir. SSR. Ser. est. i tekhn. nauk 1 no.2:79-93 '59.  
(MIRA 13:9)  
(Issyk-Kul' Province--Pastures and meadows)

TRULEVICH, N.V.

Studying the age composition of plant populations in grass-  
wormwood pastures and conserving their productivity. Vop.  
geog. no.48:205-222 '60. (MIRA 13:7)  
(Tien Shan--Pasture research)



BARYSHEVA, M.D.; TRULEVICH, Y.K.; TUL'ZHENKOVA, F.F.; TSVETAYEVA, Ye.M.;  
POSTRELOVA, T.A., red.

[Vegetable and potato growing in the Far North; bibliographic  
index for 1932-1957] Ovoshchevodstvo i kartofelevodstvo na  
Krainem Severe; bibliograficheski ukazatel' 1932-1957 gg. Lenin-  
grad, 1959. 51 p. (MIRA 13:11)

1. Moscow. Tsentral'naya nauchnaya sel'skokhozyaystvennaya biblio-  
teka.

(Russia, Northern--Vegetable gardening)  
(Russia, Northern--Potatoes)

TRULEVICH, V.K.

[Onions and garlic] Luk i chesnok. 2., perer. 1 dop. izd. Moskva,  
Gos. izd-vo selkhoz lit-ry, 1958. 189 p. (MIRA 11:11)  
(Onions and garlic)

TRULEVICH, V.K.

USSR / Cultivated Plants. Potatoes. Vegetables. Melons.

M

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 34701

Authors : Trulevich, V.K.; Tul'zhenkova, F. F.

Inst : Not given

Title : Vegetable Cultivation of the Extreme North.

Orig Pub : Sad i ogorod, 1957, No 10, 63-67

Abstract : No abstract given.

Card 1/1

66

TULLVICH, V. A.

Rechotyi luk Onion Moskva, Gos. izd-vo selkhoz lit-ry, 1954. 10 p.

i. Onions.

TRULEVICH, V.K.

[Vegetable gardening in the Far North] Ovoshchovodstvo na kraine  
Severe. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 293 p. (MLRA 9:11)  
(Russia, Northern--Vegetable gardening)

TRULEVICH, VLADIMIR KONSTANTINOVICH

9N/5  
723  
.T8

OVOSHCHEVODSTVO NA KRAYNEM SEVERE (VEGETABLE GARDENING IN THE  
FAR NORTH, BY) V. K. TRULEVICH, F. P. TIL'ZHEKOVA, (1) S. I.  
DOL'SHAKOV. MOSKVA, SEL'KHOZGIZ, 1956.

293 P. ILLUS., DIAGRS., TABLES.

TRULEVICH, V.K., kandidat sel'skokhozyaystvennykh nauk

Advancement of agriculture into the Far North. Priroda 44 no.10:  
99-102 0'55. (MIRA 8:12)

1. Institut polyarnogo zemledeliya, zhivotnovodstva i promyslovogo  
khozyaystva, Leningrad  
(Russia, Northern--Agriculture) (Plants--Hardiness)

SVIRIDA, V.G., rukovoditel' raboty; KLYACHKINA, Ye.L.; TRULL', L.A.

Application of ion exchange process for molasses purification in  
the production of lactic acid. Trudy BNIPPT no.4:67-76 '61.  
(MIRA 17:10)



TRULL', C.A.

K-3

USSR/Forestry - Forest Management.

Abs Jour : Ref Zhur - Biol., No 27, 1958, 91523

Author : Zakharov, V.K., Trull', O.A.

Inst : Belorussian Forest Technology Institute.

Title : The Rate of Growth in Mixed Spruce-Birch Plantations of the Belorussian SSR.

Orig Pub : Sb. nauchn. rabot. Belorussk. lesotekhn. in-t, 1958, vyp. 9, 97-104.

Abstract : No abstract.

Card 1/1

USSR / Forestry. Forest Management.

K

Abs Jour : Ref Zhur - Biologiya, No 18, 1958, No. 82203

Author : Trull, O. A.

Inst : Belorussian Forest Technology Inst.

Title : Application of the Clinometer as a Height Gauge

Orig Pub : Sb. nauch. tr. Belorussk. lesotekhn. in-t, 1957, vyp 10,  
167-173

Abstract : Three of the most efficient methods, which give maximum accurate results, are discussed for the determination of the height of trees by means of clinometer: 1) determination of the height with the trees and observation point on the same level, 2) with the trees higher than the level of the observer's eyes, and 3) with the base of the tree below the observer's level. A supplementary table is given.

Card 1/1

ZAKHAROV, Vasiliy Kirillovich, prof.; TRULL', Oleg Antonovich; MIROSHNIKOV, Vladimir Semenovich; YERMAKOV, Viktor Yevseyevich; CHERNYAK, I., red.; NOVIKOVA, V., tekhn. red.

[Forest valuation handbook] Lesotaksatsionnyi spravochnik. Pod obshchei red. V.K. Zakharova. Izd. 2., ispr. 1 dop. Minsk, Gos. izd-vo BSSR. Red. nauchno-tekhn. lit-ry, 1962. 367 p.  
(MIRA 15:6)

(Forests and forestry--Valuation)

ZAKHAROV, V.K., prof.; TRULL', O.A., kand.sel'skokhoz.nauk; MIROSHNIKOV,  
V.S., kand.sel'skokhoz.nauk; YERMAKOV, V.Ye., kand.sel'skokhoz.  
nauk; CHERNYAK, I., red.; STEPANOVA, N., tekhn.red.

[Timber valuation manual] Lesotaksatsionnyi spravochnik. Pod  
obshchei red. V.K.Zakharova. Minsk, Gos.izd-vo BSSR, 1959.  
300 p. (MIRA 13:4)

(Forests and forestry--Valuation)

TRULL', O.A., kand. sel'skokhozyaystvennykh nauk

Utilizing clinometers for measuring the height of trees.  
Sbor.nauch.trud.BLFI no.10:167-173 '57. (MIRA 11:12)  
(Clinometer) (Forests and forestry--Mensuration)

1. Mixed Spruce and Birch Plantings and the Dynamics of Their Growth and Development."

Cand Agr Sci, Voronezh Forestry Inst, Min Higher Education USSR, Voronezh, 1955. (XL,  
No 11, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended  
at USSR Higher Educational Institutions (16).

SOV/124-57-9-11003

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 9, p 160 (USSR)

AUTHOR: Trull', V. A.

TITLE: On the Distribution of Supports in the Supporting Rings of Dome Coverings (O raspolozhenii opor v 'opornyykh kol'tsakh kupol'nykh pokrytiy)

PERIODICAL: Nauch. tr. Leningr. inzh.-stroit. in-ta, 1956, Nr 23, pp 228-248

ABSTRACT: Bibliographic entry

Card 1/1

IVANOV, V.F., doktor tekhn. nauk, prof. [deceased]; ONUFRIYEV, N.M.,  
doktor tekhn. nauk, prof.; ROT, A.V., kand. arkh. dots.;  
GRIGOR'YEVA, A.M., arkh.; ZAKHAR'YEVSKAYA, M.A., kand. tekhn.  
nauk; ZEL'TEN, L.V., kand. arkh.; KRAVSKOY, V.A., arkh.;  
KUNTSMAN, M.S., kand. arkh. dots.; LOKHANOV, G.I., arkh.;  
NIKOLAYEV, A.I., doktor tekhn. nauk, prof.; OSIPOV, Ye.A.,  
kand. tekhn. nauk, dots.; SAKHNOVSKIY, K.V., doktor tekhn.  
nauk prof.; TRULL', V.A., kand. tekhn. nauk, dots.; KARRQ  
V.M., inzh., nauchn. red.; MARGOLIN, A.G., inzh., nauchn.  
red.

[Elements of buildings and structures] Konstruktsii zdanii  
i sooruzhenii. Leningrad, Stroiizdat, 1965. 487 p.

(MIRA 18:12)



SOV/112-58-1-343

Translation from: Referativnyy zhurnal, Elektrotehnika, 1958, Nr 1, p 52 (USSR)

AUTHOR: Trull', V. A.

TITLE: Tests of an Experimental Upright-and-Guy Support for 400 kv Electric Transmission Line (Issledovaniye raboty opytnoy trosostoyechnoy opory dlya linii elektroperedachi moshchnost'yu 400 kv)

PERIODICAL: V sb.: 15-ya nauch. konferentsiya Leningr. inzh.-stroit. in-ta, Leningrad, 1957, pp 46-48

ABSTRACT: Studies of a new type of support, the so-called upright-and-guy support, were conducted. The support is about 30 m high and comprises 2 swivel-supported uprights, a swivel-supported crossarm, and 4 cable guys. The uprights rest on assembled reinforced-concrete foundations by means of swivels. Rigid parts are welded; erection joints are bolted. A full-size support was tested under both normal and emergency conditions. The tests revealed the following: a relatively large shift of the crossarm, unacceptable for actual working conditions; a 0.5-1 cm sag in the assembled foundations; displacement

Card 1/2

SOV/112-58-1-343

Tests of an Experimental Upright-and-Guy Support for 400 kv Electric . . . .  
of the cable-guy anchor foundations by 1-3 cm; insignificant deviations from  
design figures in stresses in various members, etc.

F.F.V.

AVAILABLE: Library of Congress

1. Transmission lines--Equipment
2. Structures--Design

Card 2/2

TRULLEY, I.; HRABEC, Z.

Experiences in erecting a bow-shaped block. p. 3.

Vol. 4, no. 1, Jan. 1956  
POZEMNI STAVEBY  
Praha, Czechoslovakia

Source: East European Accession List. Library of Congress  
Vol. 5, No. 8, August 1956

EKARDT, A. [Eckardt, A.]; THOM, Kh.; BRADLER, G.; FUGNER, R. [Fugner, R.]

Griseorhodins; a new group of actinomycete dyes acting as  
antibiotics. Antibiotiki 10 no.7:603-611 J1 '65. (MIRA 18:9)

1. Institut mikrobiologii i eksperimental'noy terapii Yana.  
Nemetskaya akademiya nauk, Berlin.

TRUMAN, M.K., tekhnik; YES'KOV, A.S., inzh; TORGOVITSKIY, A.Ya., inzh.

Reinforcing and reconditioning the old shaft lining of the  
Komintern Mine. Shakht. stroi. 7 no.11:22-24 N°63  
(MIRA 17:7)

1. Shakhtoprokhodcheskoye upravleniye No. 7. tresta Krivbas-shakhtoprokhodka (for Truman). 2. Krivorozhskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta organizatsii i mekhanizatsii shakhtnogo stroitel'stva (for Torgovitskiy).

124-57-1-1034

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 145 (USSR)

AUTHOR: Trumbachev, V.F.

TITLE: Investigation of Some Problems of Underground Pressures by Means of an Optical Method (Issledovaniye nekotorykh voprosov gornogo davleniya opticheskimi metodami)

PERIODICAL: Tr. In-ta gorn. dela AN SSSR, 1954, Vol 1, pp 77-101

ABSTRACT: A polaroid method for the investigation of stresses is described with the aim of establishing a foundation for a theory which would afford a single-valued determination of the underground pressure prevailing in given conditions. The investigation comprised models of mining workings made out of optically polarizing material having a gelatin-glycerol base. The test performed afforded a means for studying the stress distribution around a working shaft following a dipping vein with consideration of the following factors: 1) The method of working (with demolition or with waste-rock filling); 2) the mechanical properties of the rocks used for packing (various ratios of the specific gravity and the modulus of elasticity); 3) the method used in the supports and the dimensions of the stope. The investigation

Card 1/3

124-57-1-1034

### Investigation of Some Problems of Underground Pressures (Cont.)

comprised nine models in all, which were examined relative to the plane problem. The stressed state was brought about by the weight of the model material itself. For each model the isochromes (lines of equal differences of the principal stresses) were determined, also the concentration coefficients of the principal tangential and normal stresses, and the influence radii of the working shaft and the deformation of the roof and the floor. Three forms of investigation were performed: 1) Determination of the effect of the thickness of the roof layer on the stress distribution; 2) determination of the effect of a crosscut ahead of the working shaft on the stress distribution. The linear model scale was made equal to 1:100 with models 28 mm thick. For each form of investigation three models having different dimensions were employed (the thickness of the roof layer, the width of the demolished space, and the distance to the crosscut ahead of the stope). Diagrams of the experimentally obtained stress distribution are adduced for each model, also tables of the basic physical properties of the material, and tabulations of the stress values obtained, the pressures, and the deformations. The polaroid method employed in the investigation does not appear to be universal and yields only a qualitative picture, since the difficulty of maintaining similarity affords only a means of judging the relative magnitude of the quantitative relationships. It does, however, permit the solution of problems which cannot be resolved

Card 2/3

124-57-1-1034

Investigation of Some Problems of Underground Pressures (Cont.)

by any other methods. Taken in conjunction with other methods, the optical method may well prove to be useful toward affording a complete picture of the phenomena involved.

K. K. Glazenap

1. Underground structures--Pressure--Theory
2. Underground structures--Pressure
- Model test results
3. Optical analysis--Applications

Card 3/3



TRUMBACHEV, U.F.

*Trumbachev*  
TRUMBACHEV, Konstantin V. - "Experience  
gained in the application of the  
theory of displacements in faces, taking the  
roof displacements in faces, taking the  
time factor into consideration"  
(Section 1)  
TRUMBACHEV, Vladimir P., Institute of  
Mining, Academy of Sciences - "Experimental  
investigation into the distribution of  
pressure in inhomogeneous pillars and  
roof rock using the photo-elastic method"  
(Section 2)

REPORT TO BE PRESENTED AT THE INTERNATIONAL ROCK PRESSURE CONFERENCE, PARIS, FRANCE,  
16-20 May 1960.

TRUMBACEV, V.F. [Trumbachev, V.F.], DrSc.; KATKOV, G.A., CSc.

Measuring the stress and determining the load of mine supports by photoelastometric foils. Rudy 12 no.11:400-403 N '64.

1. A.A.Skochinskiy Institute of Mining, Moscow, U.S.S.R.

KRUPENNikov, G.A.; TRUMBACHEV, V.F., kandidat tekhnicheskikh nauk.

Experimental study by the optical method of mine pressure with mechanized timbering. Ugol' 29 no.3:15-20 Mr '54. (MLRA 7:3)

1. PNIUI (for Krupennikov). 2. Institut gornogo dela Akademii nauk SSSR (for Trumbachev).

(Mine timbering) (Mine surveying) (Earth pressure)

TRUMBACHEV, Vladimir Fedorovich, kandidat tekhnicheskikh nauk; KRUPENNI-  
KOV, G.A., redaktor; RATNIKOVA, A.P., redaktor; MADEINSKAYA, n.A.  
tekhnicheskii redaktor.

[Investigating pressure in mines by the optical method] Issledo-  
vanie gornogo davleniia v ochistnykh vyrabotkakh opticheskim  
metodom. Moskva, Ugletekhnizdat, 1955. 97 p. (MLRA 8:8)  
(Earth pressure)

TRUMBACHEV, V.F.

Effect of the angle of incidence on the distribution of stress in the  
vicinity of mine workings. Trudy Inst.gor.dela no.2:55-64 '55.  
(MLRA 9:3)

(Mining engineering)

TRUMBACHEV, V. F.

BARON, L.I.; TRUMBACHEV, V.F.

Using the optical method for investigating the distribution of stresses arising in a medium under the action of pressure from an enclosed hollow space. Vest. AN Kazakh. SSR 11 no.4:65-74 Ap '55. (MIRA 8:8)  
(Pressure (Physics)) (Strains and stresses)

KRUPENNIKOV, G.A.; TRUMBACHEV, V.F., kandidat tekhnicheskikh nauk

Selecting efficient ways of interaction for mechanized timbering  
and the immediate roof. Ugol' 30 no.7:15-22 J1'55.

(MLRA 8:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy marksheyerskiy institut  
(for Krupennikov) 2. Institut gornogo dela Akademii nauk SSSR (for  
Trumbachev).

(Mine timbering)

THUMBACHMY, Vladimir Fedorovich, kandidat tekhnicheskikh nauk; ANDREYEV, V.I.,  
otvetstvennyy redaktor; RATNIKOVA, A.P., redaktor izdatel'stva;  
MADEINSKAYA, A.A., tekhnicheskiy redaktor; KOROVENKOVA, Z.A., tekhnichesk-  
skiy redaktor

[Distribution of stress throughout mine workings] Raspredelenie napriazhenii  
vokrug gornykh vyrabotok. Moskva, Ugletekhizdat, 1956. 124 p.  
(Mining engineering) (MLRA 9:12)



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TRUMBACHEV, V.F.

Effect of diagonal braces on stress distribution around drifts  
as studied on mine models. Trudy Inst.gor.dela 3:28-36 '56.

(MLRA 9:8)

(Mining engineering--Models) (Earth pressure)

124-57-1-965

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 134 (USSR)

AUTHORS: Baron, L. I., Trumbachev, V. F.

TITLE: Model Investigation of the Stress Distributions in a Medium Caused by the Pressure of Exploding Gases Against the Wall of a Charge Chamber (Issledovaniye na modelyakh raspredeleniya napryazheniy, voznikayushchikh v srede pod deystviyem davleniya vzryvnykh gazov na stenki zaryadnoy kamery)

PERIODICAL: V sb.: Vzryv. raboty. Nr 3. Moscow, Promstroyizdat, 1956, pp 34-59

ABSTRACT: A specially constructed device was used in an optical study of the stress distribution in a model occasioned by the weight of the medium and a uniform pressure applied at the boundary of a circular cylindrical housing suspended in the medium (plane problem). Numerous illustrations showing the distribution of the isolines and characteristic diagrams of the stresses and comments thereon are provided. It is noted that the tests performed were static; hence, the results may eventually be found to be considerably at variance with the stress distributions actually prevailing during an explosion in a medium.

Card 1/1

S. S. Grigoryan

1. Stress analysis--Model test results 2. Explosions--Stresses  
--Model test results 3. Stresses--Theory

TRUMBACHEV, V.F.; MEL'NIKOV, Ye.A.

Pressure distribution around development openings depending on  
their depth. Trudy Inst. gor. dela 4:37-53 '57. (MLRA 10:6)  
(Earth pressure) (Mining engineering)